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Sequence Listing was accepted.

See attached Validation Report.

If you need help call the Patent Electronic Business Center at (866)  
217-9197 (toll free).

Reviewer: Durreshwar Anjum

Timestamp: [year=2011; month=4; day=20; hr=9; min=12; sec=0; ms=140; ]

=====

Application No: 10501411 Version No: 3.0

**Input Set:****Output Set:**

**Started:** 2011-04-12 14:43:56.618  
**Finished:** 2011-04-12 14:44:06.400  
**Elapsed:** 0 hr(s) 0 min(s) 9 sec(s) 782 ms  
**Total Warnings:** 319  
**Total Errors:** 357  
**No. of SeqIDs Defined:** 344  
**Actual SeqID Count:** 344

Error code	Error Description
W 251	Found intentionally skipped sequence in SEQID (4 )
W 402	Undefined organism found in <213> in SEQ ID (5)
W 402	Undefined organism found in <213> in SEQ ID (6)
W 402	Undefined organism found in <213> in SEQ ID (8)
W 402	Undefined organism found in <213> in SEQ ID (9)
W 213	Artificial or Unknown found in <213> in SEQ ID (10)
E 224	<220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (10)
W 402	Undefined organism found in <213> in SEQ ID (11)
W 213	Artificial or Unknown found in <213> in SEQ ID (12)
E 224	<220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (12)
W 402	Undefined organism found in <213> in SEQ ID (13)
W 402	Undefined organism found in <213> in SEQ ID (16)
W 213	Artificial or Unknown found in <213> in SEQ ID (20)
E 224	<220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (20)
W 402	Undefined organism found in <213> in SEQ ID (21)
W 213	Artificial or Unknown found in <213> in SEQ ID (23)
E 224	<220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (23)
W 402	Undefined organism found in <213> in SEQ ID (24)

**Input Set:**

**Output Set:**

**Started:** 2011-04-12 14:43:56.618  
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**No. of SeqIDs Defined:** 344  
**Actual SeqID Count:** 344

Error code	Error Description
W 402	Undefined organism found in <213> in SEQ ID (26)
W 402	Undefined organism found in <213> in SEQ ID (30)
W 213	Artificial or Unknown found in <213> in SEQ ID (34)
E 224	<220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (34)
W 213	Artificial or Unknown found in <213> in SEQ ID (36)
E 224	<220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (36)
W 213	Artificial or Unknown found in <213> in SEQ ID (37)
E 224	<220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (37)
W 213	Artificial or Unknown found in <213> in SEQ ID (38)
E 224	<220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (38)
W 213	Artificial or Unknown found in <213> in SEQ ID (39)
E 224	<220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (39)
W 213	Artificial or Unknown found in <213> in SEQ ID (40)
E 224	<220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (40)
W 213	Artificial or Unknown found in <213> in SEQ ID (41)
E 224	<220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (41)
W 213	Artificial or Unknown found in <213> in SEQ ID (42)
E 224	<220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (42)
W 213	Artificial or Unknown found in <213> in SEQ ID (43)

**Input Set:**

**Output Set:**

**Started:** 2011-04-12 14:43:56.618  
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**No. of SeqIDs Defined:** 344  
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Error code	Error Description
E 224	<220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (43)
W 213	Artificial or Unknown found in <213> in SEQ ID (44)
E 224	<220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (44)
W 213	Artificial or Unknown found in <213> in SEQ ID (45)
E 224	<220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (45)
W 213	Artificial or Unknown found in <213> in SEQ ID (46)
E 224	<220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (46)
W 213	Artificial or Unknown found in <213> in SEQ ID (47)
E 224	<220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (47)
W 213	Artificial or Unknown found in <213> in SEQ ID (48)
E 224	<220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (48)
W 213	Artificial or Unknown found in <213> in SEQ ID (49)
E 224	<220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (49)
W 213	Artificial or Unknown found in <213> in SEQ ID (50) This error has occurred more than 20 times, will not be displayed
E 224	<220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (50) This error has occurred more than 20 times, will not be displayed
E 257	Invalid sequence data feature in <221> in SEQ ID (220)
E 257	Invalid sequence data feature in <221> in SEQ ID (222)
E 257	Invalid sequence data feature in <221> in SEQ ID (223)

**Input Set:**

**Output Set:**

**Started:** 2011-04-12 14:43:56.618  
**Finished:** 2011-04-12 14:44:06.400  
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**Total Warnings:** 319  
**Total Errors:** 357  
**No. of SeqIDs Defined:** 344  
**Actual SeqID Count:** 344

Error code	Error Description
E 257	Invalid sequence data feature in <221> in SEQ ID (225)
E 257	Invalid sequence data feature in <221> in SEQ ID (229)
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E 257	Invalid sequence data feature in <221> in SEQ ID (231)
E 257	Invalid sequence data feature in <221> in SEQ ID (233)
E 257	Invalid sequence data feature in <221> in SEQ ID (235)
E 257	Invalid sequence data feature in <221> in SEQ ID (242)
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E 257	Invalid sequence data feature in <221> in SEQ ID (244)
E 257	Invalid sequence data feature in <221> in SEQ ID (246)
E 257	Invalid sequence data feature in <221> in SEQ ID (247)
E 257	Invalid sequence data feature in <221> in SEQ ID (250)
E 257	Invalid sequence data feature in <221> in SEQ ID (251)
E 257	Invalid sequence data feature in <221> in SEQ ID (254)
E 257	Invalid sequence data feature in <221> in SEQ ID (256)
E 257	Invalid sequence data feature in <221> in SEQ ID (261)
E 257	Invalid sequence data feature in <221> in SEQ ID (262) This error has occurred more than 20 times, will not be displayed
W 251	Found intentionally skipped sequence in SEQID (278 )
W 251	Found intentionally skipped sequence in SEQID (283 )
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W 251	Found intentionally skipped sequence in SEQID (285 )
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**Input Set:**

**Output Set:**

**Started:** 2011-04-12 14:43:56.618  
**Finished:** 2011-04-12 14:44:06.400  
**Elapsed:** 0 hr(s) 0 min(s) 9 sec(s) 782 ms  
**Total Warnings:** 319  
**Total Errors:** 357  
**No. of SeqIDs Defined:** 344  
**Actual SeqID Count:** 344

Error code	Error Description
W 251	Found intentionally skipped sequence in SEQID (287 )
W 251	Found intentionally skipped sequence in SEQID (288 )

# SEQUENCE LISTING

<110> COWLEY, MICHAEL  
 CONE, ROGER  
 LOW, MALCOLM JAMES DUNCAN  
 BUTLER, ANDREW  
 BLOOM, STEPHEN ROBERT  
 SMALL, CAROLINE JANE  
 BATTERHAM, RACHEL LOUISE  
 GHATEI, MOHAMMED ALI

<120> MODIFICATION OF FEEDING BEHAVIOR

<130> W2023-7044US

<140> 10501411

<141> 2005-07-07

<150> PCT/GB03/00062

<151> 2003-01-10

<150> PCT/US02/31944

<151> 2002-09-24

<150> 60/392,109

<151> 2002-06-28

<150> GB 0200507.2

<151> 2002-01-10

<160> 344

<170> PatentIn version 3.5

<210> 1

<211> 36

<212> PRT

<213> Homo sapiens

<400> 1

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Leu	Asn	Arg	Tyr	Tyr	Ala	Ser	Leu	Arg	His	Tyr	Leu	Asn	Leu	Val	Thr
			20					25					30		

Arg	Gln	Arg	Tyr
			35

<210> 2

<211> 36

<212> PRT

<213> Homo sapiens

<400> 2

Tyr Pro Ser Lys Pro Asp Asn Pro Gly Glu Asp Ala Pro Ala Glu Asp  
1 5 10 15

Met Ala Arg Tyr Tyr Ser Ala Leu Arg His Tyr Ile Asn Leu Ile Thr  
20 25 30

Arg Gln Arg Tyr  
35

<210> 3

<211> 36

<212> PRT

<213> Homo sapiens

<400> 3

Ala Ser Leu Glu Pro Glu Tyr Pro Gly Asp Asn Ala Thr Pro Glu Gln  
1 5 10 15

Met Ala Gln Tyr Ala Ala Glu Leu Arg Arg Tyr Ile Asn Met Leu Thr  
20 25 30

Arg Pro Arg Tyr  
35

<210> 4

<400> 4

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<210> 5

<211> 36

<212> PRT

<213> Rattus sp.

<400> 5

Tyr Pro Ala Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu  
1 5 10 15

Leu Ser Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr  
20 25 30

Arg Gln Arg Tyr  
35

<210> 6



<211> 36

<212> PRT

<213> *Sus* sp.

<400> 6

Tyr Pro Ala Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu  
1                    5                    10                    15

Leu Ser Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr  
                  20                    25                    30

Arg Gln Arg Tyr  
              35

<210> 7

<211> 36

<212> PRT

<213> *Cavia porcellus*

<400> 7

Tyr Pro Ser Lys Pro Glu Ala Pro Gly Ser Asp Ala Ser Pro Glu Glu  
1                    5                    10                    15

Leu Ala Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr  
                  20                    25                    30

Arg Gln Arg Tyr  
              35

<210> 8

<211> 36

<212> PRT

<213> *Rana* sp.

<400> 8

Tyr Pro Pro Lys Pro Glu Asn Pro Gly Glu Asp Ala Ser Pro Glu Glu  
1                    5                    10                    15

Met Thr Lys Tyr Leu Thr Ala Leu Arg His Tyr Ile Asn Leu Val Thr  
                  20                    25                    30

Arg Gln Arg Tyr  
              35

<210> 9

<211> 36

<212> PRT

<213> *Raja* sp.

<400> 9

Tyr Pro Pro Lys Pro Glu Asn Pro Gly Asp Asp Ala Ala Pro Glu Glu  
1 5 10 15

Leu Ala Lys Tyr Tyr Ser Ala Leu Arg His Tyr Ile Asn Leu Ile Thr  
20 25 30

Arg Gln Arg Tyr  
35

<210> 10

<211> 36

<212> PRT

<213> Unknown

<220>

<221> source

<223> /note="Description of Unknown: Dogfish PYY polypeptide"

<400> 10

Tyr Pro Pro Lys Pro Glu Asn Pro Gly Glu Asp Ala Pro Pro Glu Glu  
1 5 10 15

Leu Ala Lys Tyr Tyr Ser Ala Leu Arg His Tyr Ile Asn Leu Ile Thr  
20 25 30

Arg Gln Arg Tyr  
35

<210> 11

<211> 36

<212> PRT

<213> Lampetra sp.

<400> 11

Phe Pro Pro Lys Pro Asp Asn Pro Gly Asp Asn Ala Ser Pro Glu Gln  
1 5 10 15

Met Ala Arg Tyr Lys Ala Ala Val Arg His Tyr Ile Asn Leu Ile Thr  
20 25 30

Arg Gln Arg Tyr  
35

<210> 12

<211> 36

<212> PRT

<213> Unknown

<220>

<221> source

<223> /note="Description of Unknown: Petromyzontidae PYY  
polypeptide"

<400> 12

Met Pro Pro Lys Pro Asp Asn Pro Ser Pro Asp Ala Ser Pro Glu Glu  
1 5 10 15

Leu Ser Lys Tyr Met Leu Ala Val Arg Asn Tyr Ile Asn Leu Ile Thr  
20 25 30

Arg Gln Arg Tyr  
35

<210> 13

<211> 36

<212> PRT

<213> Rattus sp.

<400> 13

Tyr Pro Ser Lys Pro Asp Asn Pro Gly Glu Asp Ala Pro Ala Glu Asp  
1 5 10 15

Met Ala Arg Tyr Tyr Ser Ala Leu Arg His Tyr Ile Asn Leu Ile Thr  
20 25 30

Arg Gln Arg Tyr  
35

<210> 14

<211> 36

<212> PRT

<213> Oryctolagus cuniculus

<400> 14

Tyr Pro Ser Lys Pro Asp Asn Pro Gly Glu Asp Ala Pro Ala Glu Asp  
1 5 10 15

Met Ala Arg Tyr Tyr Ser Ala Leu Arg His Tyr Ile Asn Leu Ile Thr  
20 25 30

Arg Gln Arg Tyr  
35

<210> 15

<211> 36

<212> PRT

<213> *Canis familiaris*

<400> 15

Tyr Pro Ser Lys Pro Asp Asn Pro Gly Glu Asp Ala Pro Ala Glu Asp  
1                    5                    10                    15

Met Ala Arg Tyr Tyr Ser Ala Leu Arg His Tyr Ile Asn Leu Ile Thr  
                  20                    25                    30

Arg Gln Arg Tyr  
                  35

<210> 16

<211> 36

<212> PRT

<213> *Sus sp.*

<400> 16

Tyr Pro Ser Lys Pro Asp Asn Pro Gly Glu Asp Ala Pro Ala Glu Asp  
1                    5                    10                    15

Leu Ala Arg Tyr Tyr Ser Ala Leu Arg His Tyr Ile Asn Leu Ile Thr  
                  20                    25                    30

Arg Gln Arg Tyr  
                  35

<210> 17

<211> 36

<212> PRT

<213> *Bos taurus*

<400> 17

Tyr Pro Ser Lys Pro Asp Asn Pro Gly Glu Asp Ala Pro Ala Glu Asp  
1                    5                    10                    15

Leu Ala Arg Tyr Tyr Ser Ala Leu Arg His Tyr Ile Asn Leu Ile Thr  
                  20                    25                    30

Arg Gln Arg Tyr  
                  35

<210> 18

<211> 36

<212> PRT

<213> *Ovis aries*

<400> 18

Tyr Pro Ser Lys Pro Asp Asn Pro Gly Asp Asp Ala Pro Ala Glu Asp  
1 5 10 15

Leu Ala Arg Tyr Tyr Ser Ala Leu Arg His Tyr Ile Asn Leu Ile Thr  
20 25 30

Arg Gln Arg Tyr  
35

<210> 19

<211> 36

<212> PRT

<213> *Cavia porcellus*

<400> 19

Tyr Pro Ser Lys Pro Asp Asn Pro Gly Glu Asp Ala Pro Ala Glu Asp  
1 5 10 15

Met Ala Arg Tyr Tyr Ser Ala Leu Arg His Tyr Ile Asn Leu Ile Thr  
20 25 30

Arg Gln Arg Tyr  
35

<210> 20

<211> 36

<212> PRT

<213> Unknown

<220>

<221> source

<223> /note="Description of Unknown: Avian Neuropeptide Y  
polypeptide"

<400> 20

Tyr Pro Ser Lys Pro Asp Ser Pro Gly Glu Asp Ala Pro Ala Glu Asp  
1 5 10 15

Met Ala Arg Tyr Tyr Ser Ala Leu Arg His Tyr Ile Asn Leu Ile Thr  
20 25 30

Arg Gln Arg Tyr  
35

<210> 21

<211> 36

<212> PRT

<213> Rana sp.

<400> 21

Tyr Pro Ser Lys Pro Asp Asn Pro Gly Glu Asp Ala Pro Ala Glu Asp  
1 5 10 15

Met Ala Lys Tyr Tyr Ser Ala Leu Arg His Tyr Ile Asn Leu Ile Thr  
20 25 30

Arg Gln Arg Tyr  
35

<210> 22

<211> 36

<212> PRT

<213> Carassius auratus

<400> 22

Tyr Pro Thr Lys Pro Asp Asn Pro Gly Glu Gly Ala Pro Ala Glu Glu  
1 5 10 15

Leu Ala Lys Tyr Tyr Ser Ala Leu Arg His Tyr Ile Asn Leu Ile Thr  
20 25 30

Arg Gln Arg Tyr  
35

<210> 23

<211> 36

<212> PRT

<213> Unknown

<220>

<221> source

<223> /note="Description of Unknown: Dogfish Neuropeptide Y  
polypeptide"

<400> 23

Tyr Pro Ser Lys Pro Asp Asn Pro Gly Glu Gly Ala Pro Ala Glu Asp  
1 5 10 15

Leu Ala Lys Tyr Tyr Ser Ala Leu Arg His Tyr Ile Asn Leu Ile Thr  
20 25 30

Arg Gln Arg Tyr  
35

<210> 24  
<211> 36  
<212> PRT  
<213> *Lampetra* sp.

<400> 24  
Pro Pro Asn Lys Pro Asp Ser Pro Gly Glu Asp Ala Pro Ala Glu Asp  
1 5 10 15

Leu Ala Arg Tyr Leu Ser Ala Val Arg His Tyr Ile Asn Leu Ile Thr  
20 25 30

Arg Gln Arg Tyr  
35

<210> 25  
<211> 36  
<212> PRT  
<213> *Ovis aries*

<400> 25  
Ala Pro Leu Glu Pro Val Tyr Pro Gly Asp Asn Ala Thr Pro Glu Gln  
1 5 10 15

Met Ala Gln Tyr Ala Ala Asp Leu Arg Arg Tyr Ile Asn Met Leu Thr  
20 25 30

Arg Pro Arg Tyr  
35

<210> 26  
<211> 36  
<212> PRT  
<213> *Sus* sp.

<400> 26  
Ala Pro Leu Glu Pro Val Tyr Pro Gly Asp Asp Ala Thr Pro Glu Gln  
1 5 10 15

Met Ala Gln Tyr Ala Ala Glu Leu Arg Arg Tyr Ile Asn Met Leu Thr  
20 25 30

Arg Pro Arg Tyr  
35

<210> 27  
<211> 36  
<212> PRT

<213> Canis familiaris

<400> 27

Ala Pro Leu Glu Pro Val Tyr Pro Gly Asp Asp Ala Thr Pro Glu Gln  
1 5 10 15

Met Ala Gln Tyr Ala Ala Glu Leu Arg Arg Tyr Ile Asn Met Leu Thr  
20 25 30

Arg Pro Arg Tyr  
35

<210> 28

<211> 36

<212> PRT

<213> Felis catus

<400> 28

Ala Pro Leu Glu Pro Val Tyr Pro Gly Asp Asn Ala Thr Pro Glu Gln  
1 5 10 15

Met Ala Gln Tyr Ala Ala Glu Leu Arg Arg Tyr Ile Asn Met Leu Thr  
20 25 30

Arg Pro Arg Tyr  
35

<210> 29

<211> 36

<212> PRT

<213> Bos taurus

<400> 29

Ala Pro Leu Glu Pro Glu Tyr Pro Gly Asp Asn Ala Thr Pro Glu Gln  
1 5 10 15

Met Ala Gln Tyr Ala Ala Glu Leu Arg Arg Tyr Ile Asn Met Leu Thr  
20 25 30

Arg Pro Arg Tyr  
35

<210> 30

<211> 36

<212> PRT

<213> Rattus sp.

<400> 30



Ala Pro Leu Glu Pro Met Tyr Pro Gly Asp Tyr Ala Thr His Glu Gln  
1 5 10 15

Arg Ala Gln Tyr Glu Thr Gln Leu Arg Arg Tyr Ile Asn Thr Leu Thr  
20 25 30

Arg Pro Arg Tyr  
35

<210> 31  
<211> 36  
<212> PRT  
<213> Mus musculus

<400> 31  
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1 5 10 15

Met Ala Gln Tyr Glu Thr Gln Leu Arg Arg Tyr Ile Asn Thr Leu Thr  
20 25 30

Arg Pro Arg Tyr  
35

<210> 32  
<211> 37  
<212> PRT  
<213> Cavia porcellus

<400> 32  
Ala Pro Leu Glu Pro Val Tyr Pro Gly Asp Asn Ala Thr Pro Glu Gln  
1 5 10 15

Gln Met Ala Gln Tyr Ala Ala Glu Met Arg Arg Tyr Ile Asn Met Leu  
20 25 30

Thr Arg Pro Arg Tyr  
35

<210> 33  
<211> 36  
<212> PRT  
<213> Gallus gallus

<400> 33  
Gly Pro Ser Gln Pro Thr Tyr Pro Gly Asp Asp Ala Pro Val Glu Asp  
1 5 10 15

Leu Ile Arg Phe Tyr Asn Asp Leu Gln Gln Tyr Leu Asn Val Val Thr  
20 25 30

Arg His Arg Tyr  
35

<210> 34

<211> 36

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<213> Unknown

<220>

<221> source

<223> /note="Description of Unknown: Alligator Pancreatic  
polypeptide"

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Thr Pro Leu Gln Pro Lys Tyr Pro Gly Asp Gly Ala Pro Val Glu Asp  
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Leu Ile Gln Phe Tyr Asn Asp Leu Gln Gln Tyr Leu Asn Val Val Thr  
20 25 30

Arg Pro Arg Phe  
35

<210> 35

<211> 36

<212> PRT

<213> Rana catesbeiana

<400> 35

Ala Pro Ser Glu Pro His His Pro Gly Asp Gln Ala Thr Pro Asp Gln  
1 5 10 15

Leu Ala Gln Tyr Tyr Ser Asp Leu Tyr Gln Tyr Ile Thr Phe Ile Thr  
20 25 30

Arg Pro Arg Phe  
35

<210> 36

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 36

Lys His Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr  
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<210> 37

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 37

Arg His Thr Leu Asn Leu Val Thr Arg Gln Arg Tyr  
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<210> 38

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 38

Arg His Phe Leu Asn Leu Val Thr Arg Gln Arg Tyr  
1 5 10

<210> 39

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic peptide"

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Arg His Tyr Ile Asn Leu Val Thr Arg Gln Arg Tyr  
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<213> Artificial Sequence

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<223> /note="Description of Artificial Sequence: Synthetic peptide"

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<213> Artificial Sequence

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 <221> source  
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<210> 48  
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<210> 50  
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